

FusionPower Series

UPS5000-E-(30-120kVA)

Introduction

Based on the online double conversion technology, FusionPower Series UPS5000-E-(30-120kVA) can provide reliable, pure and uninterrupted power for critical ICT equipment. The modularized architecture helps improve the availability and reduce the engineering cost significantly.

Scenarios

- Small & medium data center, large enterprise regional datacenter
- Central offices, dispatch center, control center, etc.

Features

Simple

- Hot swappable power module, bypass module and control module simplify maintenance and expansion in 5 minutes

Green

- Compact design, saving the footprint by 50%
- 96% system efficiency, high efficiency at light-load

Smart

- iPower pre-warnings for key components by AI method

Reliable

- Redundant architecture eliminates single point of failure
- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid



30kVA Power Module @2U



UPS5000-E-120K-FM

Specifications

Model		UPS5000-E-(30-120kVA)-FM			
Rated Capacity (kVA/kW)		30kVA/30kW	60kVA/60kW	90kVA/90kW	120kVA/120kW
Number of Power Modules		1	2	3	4
Mains Input	Input Wiring	3Ph+N+PE			
	Rated Voltage	380/400/415Vac			
	Voltage Range	138-485Vac (305-485Vac for 100% load; 138-305Vac for 40%-100% load)			
	Input Frequency	40-70Hz			
	Total Harmonic Distortion	THDi<3% for linear load			
	Input Power Factor	0.99			
Bypass Input	Input Wiring	3Ph+N+PE			
	Rated Voltage	380/400/415Vac			
	Input Frequency	50/60 ± 6Hz			
Battery	Rated Voltage	360-528Vdc (VRLA, the number of batteries can be selected from 30 to 44; 40 batteries in default) 512Vdc (Li-ion battery, Huawei SmartLi)			
Output	Output Wiring	3Ph+N+PE			
	Voltage	380/400/415Vac ± 1%			
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz ± 0.05% (Battery mode)			
	Waveform	Sine wave (THDv<1% for linear load)			
	Output Power Factor	1			
	Overload Capacity	Inverter: 105%<load≤110% for 60 mins, then transfer to bypass mode; 110%<load≤125% for 10 mins, then transfer to bypass mode; 125%<load≤150% for 1 min, then transfer to bypass mode; load>150% for 200ms, then transfer to bypass mode;			
	Efficiency	Up to 96%			
	Expandability	4			
Environment	Operating Temperature	0-40°C			
	Storage Temperature	-40 to 70°C			
	Relative Humidity	0%-95% (No condensing)			
	Operating Altitude	0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3			
Others	Height × Width × Depth (mm)	2000 × 600 × 850			
	Weight	250kg	270kg	290kg	310kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.			
	Communications	Dry contacts, RS485, SNMP			

Remark: For important systems that are related to important economic interests or public security, such as civil aviation management center, financial clearing center, and trading center, the Tier IV or Tier III power supply level specified in T1942 must be used. That is, two UPSs form dual-bus power supply or the UPS and mains form dual-bus power supply.

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